

**AUTOMATIC DATA INTERPRETATION AND IMPLEMENTATION
USING PERFORMANCE CAPACITY MANAGEMENT FRAMEWORK
OVER MANY SERVERS**

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ABSTRACT OF THE DISCLOSURE

10 An automated method of managing computing resources having a workload of
a given type comprises providing resource data collectors for collecting data regarding
performance of the resources, such as a server network, in accordance with the type
of workload; developing a forecast of utilization of the resources, based on historical
performance data; and collecting real-time performance data regarding the resources
running under the workload. The method then includes analyzing the performance
data and the forecast to identify a critical resource; and automatically adjusting a
capacity of the resource to provide steady-state performance of the resource under the
workload. Additional hardware resources such as CPUs, computer memory and
15 computer disk storage are initially available to, but unused by, the computing
resources.